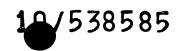


INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

15 JUN 2005

A15813	Applicant's or agent's file reference A158135		FOR FURTHER ACTION See No Prelimi	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. PCT/IB 03/06442			International filing date (day/month/year) 23.12.2003	Priority date (day/month/year) 02.01.2003		
			both national classification and IPC			
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Applicant	t					
SOCIE	DAD	SPANOLA DE CAR	BUROS METALICOS, S.A.			
i. Th	nis inte	rnational preliminary ex	camination report has been prepared by the applicant according to Article 36.	this International Preliminary Examining		
Α.	attionty	usia io tranomino de s		<i>F</i> \$		
			Lat E chapte including this cover sheet			
2. Th	nis REI	OHI consists of a total	al of 5 sheets, including this cover sheet.	•		
	ha	on amonded and are th	panied by ANNEXES, i.e. sheets of the d ne basis for this report and/or sheets cont ion 607 of the Administrative Instructions	description, claims and/or drawings which have taining rectifications made before this Authority ander the PCT).		
Tł	•	nnexes consist of a total				
3. TI	his rep ⊠	ort contains indications Basis of the opinion	relating to the following items:			
11		Priority				
H	•	:	of opinion with regard to novelty, invention	ve step and industrial applicability		
1\	-	Lack of unity of inve		ovelty, inventive step or industrial applicability;		
٧	′ ⊠	citations and explar	nations supporting such statement	overty, inventive step of industrial applications,		
٧	/1 - □	Certain documents	cited	•		
٧	/II 🗆		he international application			
	/III 🛚	Certain observation	ns on the international application			
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Date of 14.07.	submis	sion of the demand	Date of compl 21.12.2004	letion of this report		
Date of 14.07.	submis	sion of the demand	Date of compl 21.12.2004 ational Authorized Of P.B. 5818 Patentlaan 2	letion of this report		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

I. E	3asis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages	
	1-13		as originally filed
	Clai	ms, Numbers	
	1-9		as originally filed
	Drav	wings, Sheets	
	1/4-4		as originally filed
2.	\A/i+b	rogard to the langua	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	cation of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
			ntly to this Authority in computer readable form.
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

10/5 585

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

JC20 Rec'd PGT/PATO No. 5 HUN/2005/06442

	This report has been established as if (some of) the amendments habeen considered to go beyond the disclosure as filed (Rule 70.2(c)).	id not been made	, since they have	
	(Any replacement sheet containing such amendments must be reference.)	red to under item	1 and annexed to the	าis

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims
1-9

No: Claims

Inventive step (IS) Yes: Claims 1-9

No: Claims

Industrial applicability (IA) Yes: Claims 1-9

No: Claims

2. Citations and explanations

see separate sheet



Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US-A-6 122 954 (BOWERS WILLIAM D) 26 September 2000 (2000-09-26)
- D2: LLOBET E ET AL: "Quantitative vapor analysis using the transient response of nonselective thick-film tin oxide gas sensors" 1997 INTERNATIONAL CONFERENCE ON SOLID-STATE SENSORS AND ACTUATORS. DIGEST OF TECHNICAL PAPERS. TRANSDUCERS 97. CHICAGO, IL, JUNE 16 - 19, 1997. SESSIONS 3A1 - 4D3. PAPERS NO. 3A1.01 - 4D3.14P, INTERNATIONAL CONFERENCE ON SOLID-STATE SENSORS AND ACTU, vol. 2, 16 June 1997 (1997-06-16), pages 971-974, XP010240638 ISBN: 0-7803-3829-4
- D3: HOEFER U ET AL: "CO and CO2 thin-film SnO2 gas sensors on Si substrates" SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 22, no. 2, 1 November 1994 (1994-11-01), pages 115-119, XP004012434 ISSN: 0925-4005
- D4: KIM D H ET AL: "CO2-sensing characteristics of SnO2 thick film by coating lanthanum oxide" SENSORS AND ACTUATORS B, ELSEVIER SEQUOIA S.A., LAUSANNE, CH, vol. 62, no. 1, January 2000 (2000-01), pages 61-66, XP004184491 ISSN: 0925-4005
- D5: DE 195 34 557 A (FRAUNHOFER GES FORSCHUNG) 20 March 1997 (1997-03-20)
- 1.1 Document D1 which is considered to represent the closest prior art relates to a system for the detection of reducing and oxidizing gases in a carrier gas (D1 Col 6 line 7-20), which comprsies a plurality of detection means (Col 7 line 5-6), means for processing and control of acquisition and data recognition (Col 10 line 63-67), whereby the system includes means for connecting said carrier gas to a measuring chamber which contains said sensors, and providing real time recognition of said gases (cf., D1 Col 4 line 21-27, Fig:1)
- 1.2 Vis-a-vis this known device the subject-matter of claim 1 differs from this known

EXAMINATION REPORT - SEPARATE SHEET



system in that the analysis is being made with metal oxide semiconductor sensors, the data analysis including a system of real-time recognition of said gases, by providing a diagram with delimited decision zones. Hence the subject-matter of claim 1 is novel.

- 1.3 Document D2 does disclose the analysis of volatile organic vapours (VOC's) using SnO2 (tin dioxide) sensors but this is in relation only to reducing vapours (cf., D2 Page 971 RHC line 24-27) and is not concerned with the concentration of oxidising &/or reducing gases in a carrier gas as is required by present claim 1.
- 1.4 As neither problem nor solution are considered obvious per se, the present independent apparatus claim 1 is seen to involve an inventive step in the sense of Article 33(3) PCT.
- 1.5 The industrial applicability of the apparatus of claim 1 is evident, so that therefore all the requirements of Article 33 PCT are met.
- 1.6 Dependent claims 2-9 define further refinements of the new and inventive idea underlying independent claims 1 and 6, and also meet the requirements of Article 33 PCT for the same reasons as given above.